```
RRRRRRRRRRRR    UUU         UUU  NNN         NNN   000000000   FFFFFFFFFFFFFFF   FFFFFFFFFFFFFFF
RRRRRRRRRRRR    UUU         UUU  NNN         NNN   000000000   FFFFFFFFFFFFFFF   FFFFFFFFFFFFFFF
RRRRRRRRRRRR    UUU         UUU  NNN         NNN   000000000   FFFFFFFFFFFFFFF   FFFFFFFFFFFFFFF
RRR      RRR    UUU         UUU  NNN         NNN  000       000  FFF             FFF
RRR      RRR    UUU         UUU  NNN         NNN  000       000  FFF             FFF
RRR      RRR    UUU         UUU  NNN         NNN  000       000  FFF             FFF
RRR      RRR    UUU         UUU  NNNNNN      NNN  000       000  FFF             FFF
RRR      RRR    UUU         UUU  NNNNNN      NNN  000       000  FFF             FFF
RRRRRRRRRRRR    UUU         UUU  NNN   NNN   NNN  000       000  FFFFFFFFFFFF    FFFFFFFFFFFF
RRRRRRRRRRRR    UUU         UUU  NNN   NNN   NNN  000       000  FFFFFFFFFFFF    FFFFFFFFFFFF
RRRRRRRRRRRR    UUU         UUU  NNN   NNN   NNN  000       000  FFFFFFFFFFFF    FFFFFFFFFFFF
RRR  RRR        UUU         UUU  NNN      NNNNN  000       000  FFF             FFF
RRR   RRR       UUU         UUU  NNN      NNNNN  000       000  FFF             FFF
RRR    RRR      UUU         UUU  NNN         NNN  00C       000  FFF             FFF
RRR     RRR     UUU         UUU  NNN         NNN  000       000  FFF             FFF
RRR      RRR    UUU         UUU  NNN         NNN  000       000  FFF             FFF
RRR       RRR   UUUUUUUUUUUUUUU  NNN         NNN   000000000   FFF             FFF
RRR       RRR   UUUUUUUUUUUUUUU  NNN         NNN   000000000   FFF             FFF
RRR       RRR   UUUUUUUUUUUUUUU  NNN         NNN   000000000   FFF             FFF
```

FILEID**FLGSEM

```
FFFFFFFFFF LL                GGGGGGG   SSSSSSS  EEEEEEEEEE  MM        MM
FFFFFFFFFF LL                GGGGGGG   SSSSSSS  EEEEEEEEEE  MM        MM
FF         LL              GG          SS       EE          MMMM    MMMM
FF         LL              GG          SS       EE          MMMM    MMMM
FF         LL              GG          SS       EE          MM  MM    MM
FF         LL              GG          SS       EE          MM    MM  MM
FFFFFFFF   LL              GG            SSSSSS  EEEEEEE     MM        MM
FFFFFFFF   LL              GG            SSSSSS  EEEEEEE     MM        MM
FF         LL              GG  GGGGGG        SS  EE          MM        MM
FF         LL              GG  GGGGGG        SS  EE          MM        MM
FF         LL              GG      GG        SS  EE          MM        MM     ....
FF         LL              GG      GG        SS  EE          MM        MM     ....
FF         LLLLLLLLLL        GGGGGG  SSSSSSS  EEEEEEEEEE  MM        MM        ....
FF         LLLLLLLLLL        GGGGGG  SSSSSSS  EEEEEEEEEE  MM        MM        ....


LL              IIIIII      SSSSSSS
LL              IIIIII      SSSSSSS
LL                II      SS
LL                II      SS
LL                II      SS
LL                II      SS
LL                II        SSSSSS
LL                II        SSSSSS
LL                II            SS
LL                II            SS
LL                II            SS
LL                II            SS
LLLLLLLLLL      IIIIII      SSSSSSS
LLLLLLLLLL      IIIIII      SSSSSSS
```

```
     1    0001  0 MODULE flgsem ( IDENT = 'V04-000'
     2  P 0002  0                 %BLISS32[, ADDRESSING_MODE (EXTERNAL     = LONG_RELATIVE,
     3    0003  0                                             NONEXTERNAL = LONG_RELATIVE)]
     4    0004  0                 ) =
     5    0005  1 BEGIN
     6    0006  1
     7    0007  1 !***************************************************************************
     8    0008  1 !*                                                                         *
     9    0009  1 !*  COPYRIGHT (c) 1978, 1980, 1982, 1984 BY                                *
    10    0010  1 !*  DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.                 *
    11    0011  1 !*  ALL RIGHTS RESERVED.                                                   *
    12    0012  1 !*                                                                         *
    13    0013  1 !*  THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED  *
    14    0014  1 !*  ONLY IN  ACCORDANCE WITH  THE  TERMS  OF  SUCH LICENSE  AND WITH THE   *
    15    0015  1 !*  INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR  ANY  OTHER  *
    16    0016  1 !*  COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY  *
    17    0017  1 !*  OTHER PERSON.  NO TITLE TO AND OWNERSHIP OF  THE  SOFTWARE IS  HEREBY  *
    18    0018  1 !*  TRANSFERRED.                                                           *
    19    0019  1 !*                                                                         *
    20    0020  1 !*  THE INFORMATION IN THIS SOFTWARE IS  SUBJECT TO CHANGE WITHOUT NOTICE  *
    21    0021  1 !*  AND  SHOULD  NOT  BE  CONSTRUED AS  A COMMITMENT BY DIGITAL EQUIPMENT  *
    22    0022  1 !*  CORPORATION.                                                           *
    23    0023  1 !*                                                                         *
    24    0024  1 !*  DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE  OR  RELIABILITY OF ITS  *
    25    0025  1 !*  SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.                *
    26    0026  1 !*                                                                         *
    27    0027  1 !*                                                                         *
    28    0028  1 !***************************************************************************
    29    0029  1
    30    0030  1 !++
    31    0031  1 ! FACILITY:     DSR (Digital Standard RUNOFF) / DSRPLUS
    32    0032  1 !
    33    0033  1 ! ABSTRACT:
    34    0034  1 !
    35    0035  1 !     Processes the .ENABLE UNDERLINING, .BOLDING, .INDEXING, and
    36    0036  1 !     .OVERSTRIKING commands, and the .DISABLE UNDERLINING, BOLDING,
    37    0037  1 !     INDEXING, and OVERSTRIKING commands.
    38    0038  1 !     It also processes .ENABLE TOC and .DISABLE TOC.
    39    0039  1 !
    40    0040  1 ! ENVIRONMENT: Transportable
    41    0041  1 !
    42    0042  1 ! AUTHOR:       R.W.Friday       CREATION DATE: May, 1978
    43    0043  1 !
    44    0044  1 !
```

```
  46    0045  1 %SBTTL 'Revision History'
  47    0046  1 !
  48    0047  1 ! MODIFIED BY:
  49    0048  1 !
  50    0049  1 !    003      RER00003      Ron Randall      07-Mar-1983
  51    0050  1 !          Global edit of all modules. Updated module names, idents,
  52    0051  1 !          copyright dates. Changed require files to BLISS library.
  53    0052  1 !
  54    0053  1 !--
  55    0054  1
```

```
  57      0055  1 %SBTTL 'Module Level Declarations'
  58      0056  1 !
  59      0057  1 !
  60      0058  1 !  TABLE OF CONTENTS:
  61      0059  1 !
  62      0060  1 !  INCLUDE FILES:
  63      0061  1 !
  64      0062  1 LIBRARY 'NXPORT:XPORT';              ! XPORT Library
  65      0063  1 REQUIRE 'REQ:RNODEF';                ! RUNOFF variant definitions
  66      0194  1
  67   U  0195  1 %IF DSRPLUS %THEN
  68   U  0196  1 LIBRARY 'REQ:DPLLIB';                ! DSRPLUS BLISS Library
  69      0197  1 %ELSE
  70      0198  1 LIBRARY 'REQ:DSRLIB';                ! DSR BLISS Library
  71      0199  1 %FI
  72      0200  1
  73      0201  1 !
  74      0202  1 !  EXTERNAL REFERENCES:
  75      0203  1 !
  76      0204  1 EXTERNAL
  77      0205  1     GCA : GCA_DEFINITION,
  78      0206  1     SCA : SCA_DEFINITION;
  79      0207  1
```

**Fl

FLGSEM
V04-000

Module Level Declarations

H 7
16-Sep-1984 00:29:12   VAX-11 Bliss-32 V4.0-742
14-Sep-1984 13:06:18   [RUNOFF.SRC]FLGSEM.BLI;1

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```
 81   0208   1   GLOBAL ROUTINE FLGSEM (HANDLER_CODE) : NOVALUE =
 82   0209   1
 83   0210   1   !++
 84   0211   1   ! FUNCTIONAL DESCRIPTION:
 85   0212   1   !
 86   0213   1   !       FLGSEM turns the semantics associated with a flag
 87   0214   1   !       on and off.
 88   0215   1   !       It also turns table of contents generation on or off.
 89   0216   1   !
 90   0217   1   ! FORMAL PARAMETERS:
 91   0218   1   !
 92   0219   1   !       HANDLER_CODE indicates which command is to be processed.
 93   0220   1   !
 94   0221   1   ! IMPLICIT INPUTS:        None
 95   0222   1   !
 96   0223   1   ! IMPLICIT OUTPUTS:       None
 97   0224   1   !
 98   0225   1   ! ROUTINE VALUE:
 99   0226   1   ! COMPLETION CODES:       None
100   0227   1   !
101   0228   1   ! SIDE EFFECTS:           None
102   0229   1   !--
103   0230   1
104   0231   2      BEGIN
105   0232   2      !The following macro definition is to be removed after a few
106   0233   2      !versions of the new RUNOFF have gone out the door.
107 M 0234   2      MACRO XXXX(X) =
108 M 0235   2          BEGIN
109 M 0236   2          EXTERNAL ROUTINE ERM;
110 M 0237   2          EXTERNAL ROUTINE ERMA;
111 M 0238   2          EXTERNAL LITERAL
112 M 0239   2              RNFMD1,
113 M 0240   2              RNFSTR;
114 M 0241   2
115 M 0242   2          ERM(RNFMD1,
116 M 0243   2              CH$PTR ( UPLIT (X)),
117 M 0244   2              %CHARCOUNT (X));
118 M 0245   2          ERMA(RNFSTR, FALSE);
119   0246   2          END %;
120   0247   2
121   0248   2      SELECTONE .HANDLER_CODE OF
122   0249   2          SET
123   0250   2
124   0251   2          [H_ENABLE_BOLDIN] :
125   0252   3              BEGIN
126   0253   3              SCA_DO_BLD = .GCA_CMD_BLD;
127   0254   3              SCA_WRD_C_BLD = .SCA_BLD AND .GCA_CMD_BLD;
128   0255   2              END;
129   0256   2
130   0257   2          [H_HYPHENATION, H_ENABLE_HYPHEN] :
131   0258   3              BEGIN
132   0259   3              SCA_DO_HYP = TRUE;
133   0260   2              END;
134   0261   2
135   0262   2          [H_ENABLE_UNDERL] :
136   0263   3              BEGIN
137   0264   3              SCA_DO_UND = .GCA_CMD_UND;
```

```
 138    0265  3              SCA_WRD_C_UND = .SCA_UND AND .GCA_CMD_UND;
 139    0266  2              END;
 140    0267
 141    0268  2          [H_ENABLE_OVERST] :
 142    0269  2              SCA_DO_OVR = .GCA_CMD_OVR;
 143    0270
 144    0271  2          [H_ENABLE_INDEXI] :
 145    0272  2              BEGIN
 146    0273  3              SCA_DO_IND = .GCA_CMD_IND;
 147    0274  3              SCA_INDEX = .GCA_CMD_IND;
 148    0275  2              END;
 149    0276
 150    0277  2          [H_DISABLE_BOLDI] :
 151    0278  2              BEGIN
 152    0279  3              SCA_DO_BLD = FALSE;
 153    0280  3              SCA_WRD_C_BLD = FALSE;
 154    0281  2              END;
 155    0282
 156    0283  2          [H_NO_HYPHENATIO, H_DISABLE_HYPHE] :
 157    0284  2              BEGIN
 158    0285  3              SCA_DO_HYP = FALSE;
 159    0286  2              END;
 160    0287
 161    0288  2          [H_DISABLE_UNDER] :
 162    0289  2              BEGIN
 163    0290  3              SCA_DO_UND = FALSE;
 164    0291  3              SCA_WRD_C_UND = FALSE;
 165    0292  2              END;
 166    0293
 167    0294  2          [H_DISABLE_OVERS] :
 168    0295  2              SCA_DO_OVR = FALSE;
 169    0296
 170    0297  2          [H_DISABLE_INDEX] :
 171    0298  2              BEGIN
 172    0299  3              SCA_DO_IND = FALSE;
 173    0300  3              SCA_INDEX = FALSE;
 174    0301  2              END;
 175    0302
 176    0303  2          [H_ENABLE_TOC] :
 177    0304  2              BEGIN
 178    0305  3              !Turn on table of contents collection if user said /BTC
 179    0306  3              GCA_BTC = .GCA_CMD_BTC
 180    0307  2              END;
 181    0308
 182    0309  2          [H_DISABLE_TOC] :
 183    0310  2              BEGIN
 184    0311  3              GCA_BTC = FALSE
 185    0312  2              END;
 186    0313
 187    0314  2          TES;
 188    0315
 189    0316  1      END;                                    !End of FLGSEM


                                                .TITLE  FLGSEM
                                                .IDENT  \V04-000\
```

```
                                                        .EXTRN  GCA, SCA

                                                        .PSECT  $CODE$,NOWRT,2

                                   001C 00000           .ENTRY  FLGSEM, Save R2,R3,R4
                      54 00000000G EF 9E 00002          MOVAB   GCA+68, R4                      0208
                      53 00000000G EF 9E 00009          MOVAB   SCA+168, R3
                      50          04 AC D0 00010         MOVL    HANDLER_CODE, R0                0248
                      30             50 D1 00014         CMPL    R0, #48                         0251
                      1D             12 00017            BNEQ    1$
            63     01 00             64 F0 00019         INSV    GCA+68, #0, #1, SCA+168         0253
            51  F0 A3 01             00 EF 0001E         EXTZV   #0, #1, SCA+152, R1             0254
            52     64 01             00 EF 00024         EXTZV   #0, #1, GCA+68, R2
                      52             52 D2 00029         MCOML   R2, R2
                      51             52 8A 0002C         BICB2   R2, R1
      1C A3  01       00             51 F0 0002F         INSV    R1, #0, #1, SCA+196
                      04 00035                           RET                                     0248
                      31             50 D1 00036 1$:     CMPL    R0, #49                         0257
                      09             13 00039            BEQL    2$
                00000064 8F         50 D1 0003B         CMPL    R0, #100
                      04             12 00042            BNEQ    3$
                      63             10 88 00044 2$:     BISB2   #16, SCA+168                    0259
                      04 00047                           RET                                     0248
                      36             50 D1 00048 3$:     CMPL    R0, #54                         0262
                      22             12 0004B            BNEQ    4$
            51     64 01             01 EF 0004D         EXTZV   #1, #1, GCA+68, R1              0264
            63     01 01             51 F0 00052         INSV    R1, #1, #1, SCA+168
            51  F0 A3 01             01 EF 00057         EXTZV   #1, #1, SCA+152, R1             0265
            52     64 01             01 EF 0005D         EXTZV   #1, #1, GCA+68, R2
                      52             52 D2 00062         MCOML   R2, R2
                      51             52 8A 00065         BICB2   R2, R1
      1C A3  01       01             51 F0 00068         INSV    R1, #1, #1, SCA+196
                      04 0006E                           RET                                     0248
                      33             50 D1 0006F 4$:     CMPL    R0, #51                         0268
                      0B             12 00072            BNEQ    5$
            51     64 01             02 EF 00074         EXTZV   #2, #1, GCA+68, R1              0269
            63     01 02             51 F0 00079         INSV    R1, #2, #1, SCA+168
                      04 0007E                           RET
                      32             50 D1 0007F 5$:     CMPL    R0, #50                         0271
                      11             12 00082            BNEQ    6$
            51     64 01             03 EF 00084         EXTZV   #3, #1, GCA+68, R1              0273
            63     01 03             51 F0 00089         INSV    R1, #3, #1, SCA+168
      2C A3  64 01    03             03 EF 0008E         EXTZV   #3, #1, GCA+68, SCA+212         0274
                      04 00094                           RET                                     0248
                      13             50 D1 00095 6$:     CMPL    R0, #19                         0277
                      08             12 00098            BNEQ    7$
            63        01             8A 0009A            BICB2   #1, SCA+168                     0279
         1C A3        01             8A 0009D            BICB2   #1, SCA+196                     0280
                      04 000A1                           RET                                     0248
                      14             50 D1 000A2 7$:     CMPL    R0, #20                         0283
                      09             13 000A5            BEQL    8$
                00000092 8F         50 D1 000A7         CMPL    R0, #146
                      04             12 000AE            BNEQ    9$
                      63             10 8A 000B0 8$:     BICB2   #16, SCA+168                    0285
                      04 000B3                           RET                                     0248
                      18             50 D1 000B4 9$:     CMPL    R0, #24                         0288
                      08             12 000B7            BNEQ    10$
```

FLGSEM
V04-000

Module Level Declarations

K 7
16-Sep-1984 00:29:12   VAX-11 Bliss-32 V4.0-742
14-Sep-1984 13:06:18   [RUNOFF.SRC]FLGSEM.BLI;1

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```
                        63          02  8A 000B9        BICB2   #2, SCA+168          : 0290
                1C  A3              02  8A 000BC        BICB2   #2, SCA+196          : 0291
                                        04 000C0        RET                          : 0248
                        16          50  D1 000C1 10$:   CMPL    R0, #22              : 0294
                                    04  12 000C4        BNEQ    11$
                        63          04  8A 000C6        BICB2   #4, SCA+168          : 0295
                                        04 000C9        RET
                        15          50  D1 000CA 11$:   CMPL    R0, #21              : 0297
                                    07  12 000CD        BNEQ    12$
                        63          08  8A 000CF        BICB2   #8, SCA+168          : 0299
                2C  A3          D4 000D2        CLRL    SCA+212              : 0300
                                        04 000D5        RET                          : 0248
                        35          50  D1 000D6 12$:   CMPL    R0, #53              : 0303
                                    0D  12 000D9        BNEQ    13$
      51        38  A4  01          01  EF 000DB        EXTZV   #1, #1, GCA+124, R1  : 0306
   38  A4                  01          00  51  F0 000E1        INSV    R1, #0, #1, GCA+124
                                        04 000E7        RET                          : 0304
                        17          50  D1 000E8 13$:   CMPL    R0, #23              : 0309
                                    04  12 000EB        BNEQ    14$
                38  A4              01  8A 000ED        BICB2   #1, GCA+124          : 0311
                                        04 000F1 14$:   RET                          : 0316
```

; Routine Size: 242 bytes,   Routine Base: $CODE$ + 0000

```
; 190        0317 1
; 191        0318 1 END                                    !End of module
; 192        0319 0 ELUDOM
```

PSECT SUMMARY

Name	Bytes	Attributes
$CODE$	242	NOVEC,NOWRT, RD , EXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)

Library Statistics

File	-------- Symbols -------- Total	Loaded	Percent	Pages Mapped	Processing Time
_255DUA28:[SYSLIB]XPORT.L32;1	590	0	0	252	00:00.1
_255DUA28:[RUNOFF.SRC]DSRLIB.L32;1	1248	45	3	86	00:00.3

FLGSEM
V04-000   Module Level Declarations   L 7
16-Sep-1984 00:29:12   VAX-11 Bliss-32 V4.0-742   Page 8
14-Sep-1984 13:06:18   [RUNOFF.SRC]FLGSEM.BLI;1   (4)

```
;                              COMMAND QUALIFIERS

;        BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LIS$:FLGSEM/OBJ=OBJ$:FLGSEM MSRC$:FLGSEM/UPDATE=(ENH$:FLGSEM)

; Size:           242 code + 0 data bytes
; Run Time:         00:05.3
; Elapsed Time:     00:19.4
; Lines/CPU Min:    3597
; Lexemes/CPU-Min: 19285
; Memory Used:  63 pages
; Compilation Complete
```

FIND
LIS

ENDWRD   ERROR   FIGURE
LIS   LIS   LIS

                                        FLGSEM   FOOFIL
                                        LIS   LIS

                                                                        GCODE
                                                                        LIS

           FCIMRA
           LIS

                                   FNONLY
                                   LIS

                         FJNFNJ   FOOBOT
                         LIS   LIS

                                                                        GBLDCL
                                                                        LIS

                         FNDFLG
                         LIS

                                        FOOOUT   FORMAT
                                        LIS   LIS